

5.0 GROUNDWATER MANAGEMENT PLAN COMPONENTS

5.1 COMPONENT 1 – STAKEHOLDER INVOLVEMENT

- Involving the Public
- Advisory Groups
- Informing Stakeholders & Public Agencies
- Partnerships & Coordination

5.2 COMPONENT 2 – MONITORING & MODELING

Monitoring Program

- Groundwater-Level Elevation Monitoring
- Groundwater Quality Monitoring
- Surface Water Flow Monitoring (stream gaging)
- Surface Water Quality Monitoring (303D &MS4 programs)
- Inelastic Land Surface Subsidence Monitoring
- Surface Water-Groundwater Interaction Monitoring
 - Stream gauging/seepage measurements and associated shallow groundwater monitoring
- Rainfall Monitoring
- Monitoring and Reporting Protocols
- Data Management
- Data Needs Prioritization

Modeling

- Model Purpose, Objectives & Uses
- Simulations
 - Hydrologic budget
 - Recharge and Discharge
 - Management scenarios
- Model Updates

5.3 COMPONENT 3 – GROUNDWATER PROTECTION

- Maintain Groundwater Levels
- Prevent Adverse Interactions between Surface Water and Groundwater
- Well Construction, Abandonment & Destruction
- Well Head Protection (source water protection)
- Mapping and Protecting Groundwater Recharge Areas
- Controlling Migration and Remediation of Contaminated Groundwater
- Identifying and Providing Information to the Public on Groundwater Issues
- Tracking Groundwater Salinity Trends

5.4 COMPONENT 4 – INCREASE GROUNDWATER RECHARGE

- Stormwater Recharge with Infiltration
- Aquifer Storage and Recovery (with wells) and Groundwater Banking
- Surface Water Use In Lieu of Groundwater
- Low Impact Development (LID) in New Construction

5.5 COMPONENT 5 – INCREASE CONSERVATION & EFFICIENCY

- Continue and Increase BMPs for Urban Water Conservation
- Voluntary Water Conservation BMPs for Unincorporated

5.6 COMPONENT 6 – INCREASE WATER REUSE

- Increase recycled water for agricultural irrigation
- Increase recycled water for landscape irrigation
- Graywater for domestic landscape irrigation
- Develop comprehensive information on recycled water applications

5.7 COMPONENT 7 – INTEGRATED WATER PLANNING & MANAGEMENT

- Groundwater Management and Land Use Planning
 - Provide recharge area map to local planning agencies and discuss options to protect recharge areas.
 - Provide annual briefings on groundwater management plan progress and issues to city and county land use planning agencies.
 - Review land use plans to assess risk to groundwater
- Monitor and track UWMP progress and incorporate revisions into GMP updates.
- Conjunctive Use of Surface Water and Groundwater
- Develop Multi-Agency and Organization Integration as Part of GMP Implementation
- Planning for Climate Change
- Multi-Benefit Actions and Activities - Identify actions and approaches that recognize the links between groundwater and the broader water system, including rivers, wetlands, other ecosystems, and users of connected waters